AMENDMENTS TO THE CLAIMS

Please cancel claims 3, 10, 12 and 13 without prejudice, amend claim 1 and add claim 16 as follows:

1. (Currently Amended) A data transmission system comprising:

calculation means for performing calculation using a variable on an original data stream read from a recording medium so as to produce a calculated data stream;

variable creation means for creating the variable;

a stream buffer for temporarily storing the calculated data stream therein;

inverse calculation means for performing inverse calculation on the calculated data stream output from the stream buffer by using the variable so as to reproduce the data stream;

stream processing means for processing the reproduced data stream to produce a processed data stream; and

output means for outputting the processed data stream,

wherein the variable is changeable at a regular timing or at a random timing.

2. (Original) A data transmission system according to claim 1 wherein the data stream read from the recording medium corresponds to an amount of data which can be processed at a time.

3. (Canceled)

4. (Previously Presented) A data transmission system according to claim 1 wherein a variable change code representing a message that the variable is changed is produced by the

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calculation using the variable and is temporarily stored in the stream buffer together with the calculated data stream.

   5. (Original) A data transmission system comprising:

   calculation means for performing calculation using a variable on an original data stream read from a recording medium so as to produce a calculated data stream;

   variable creation means for creating a number of variables, one of which is arbitrarily chosen as the variable used for the calculation;

   a stream buffer for temporarily storing the calculated data stream therein;

   inverse calculation means for performing inverse calculation on the calculated data streams output from the stream buffer to reproduce the data stream;

   stream processing means for processing the reproduced data stream to produce a processed data stream; and

   output means for outputting the processed data stream.

   6. (Original) A data transmission system according to claim 5 wherein the data stream read from the recording medium corresponds to an amount of data which can be processed at a time.

   7. (Previously Presented) A data transmission system according to claim 5 wherein a variable change code representing a message that the variable is changed is produced by the calculation using the variable and is temporarily stored in the stream buffer together with the calculated data stream.

8. (Original) A data transmission system comprising:

variable creation means for creating a variable set consisting of a number of variables;

calculation means for receiving an original data stream read from a recording medium so as to perform calculation on the original data stream by use of a variable which is selected from the variable set given from the variable creation means, so that the calculation means produces a calculated data stream based on the original data stream as well as a variable change code representing the variable selected from the variable set;

a stream buffer for temporarily storing the calculated data stream together with the variable change code;

inverse calculation means for performing inverse calculation on the calculated data stream output from the stream buffer by use of the variable which is selected from the variable set in accordance with the variable change code, so that the inverse calculation means reproduces the data steam based on the calculated data stream;

stream processing means for processing the reproduced data stream so as to produce a processed data stream; and

output means for outputting the processed data stream.

9. (Original) A data transmission system according to claim 8 wherein the variable creation means creates the variable set in each cycle while the variable selected from the variable set is changed in each cycle of the calculation, so that the calculation and the inverse calculation are respectively performed using a same changed variable designated by the variable change code in each cycle.

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10. (Canceled)

11. (Previously Presented) A data transmission system according to claim 2 wherein a variable change code representing a message that the variable is changed is produced by the calculation using the variable and is temporarily stored in the stream buffer together with the calculated data stream.

12. (Canceled)

13. (Canceled)

14. (Previously Presented) A data transmission system according to claim 6 wherein a variable change code representing a message that the variable is changed is produced by the calculation using the variable and is temporarily stored in the stream buffer together with the calculated data stream.

15. (Previously Presented) A data transmission system comprising:

calculation means for performing calculation using an original data stream read from a recording medium by use of at least one variable that is designated, thus producing a calculated data stream;

variable designation means for designating the variable, which is periodically changed per each cycle in response to a variable change code;

a stream buffer for temporarily storing the calculated data stream together with the variable change code therefor;

inverse calculation means for performing inverse calculation on the calculated data stream output from the stream buffer by use of the same variable used in the calculation, thus reproducing the data stream;

stream processing means for processing the reproduced data stream to produce a processed data stream; and

output means for outputting the processed data stream.

16. (New) A data transmission system comprising:

calculation means for performing calculation using a variable on an original data stream read from a recording medium so as to produce a calculated data stream;

variable creation means for creating the variable;

a stream buffer for temporarily storing the calculated data stream therein;

inverse calculation means for performing inverse calculation on the calculated data stream output from the stream buffer by using the variable so as to reproduce the data stream;

means for supplying the variable to both the calculation means and the inverse calculation means;

stream processing means for processing the reproduced data stream to produce a processed data stream; and

output means for outputting the processed data stream,

wherein the variable used by the inverse calculation means is updated in conformity with a variable update timing inserted into the data stream.